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9400221

THE UNITED STATES OF ANTERIOR

romerownom wese rusems sume cone: Kentuckų Agricultural Experiment Station

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARB) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen Years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic ted of the variety in a public repository as provided by LAW, the right to extend others from selling the variety, or offering it for sale, or reproducing it, proting it, or exporting it, or using it in producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act. Inited States seed of this variety (1) shall be sold by variety name only as a certified seed and (2) shall conform to the number of generations of the owner of the rights. (84 stat. 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'Calhoun'

In Esstimony Winercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 29th day of December in the year of our Lord one thousand nine hundred and ninety-five.

Allest

Marsha A. Stenson

Plant Variety Protection Office Agricultural Marketina Service

Societary of Agriculture

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

FORM APPROVED: OMB 0581-0055; Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE APPLICATION FOR PLANT VARIETY PROTECTION	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421).	
(Instructions on reverse)	Information is held confidential until certificate is Issued (7 U.S.C. 2426).	
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME
Kentucky Agricultural Experiment Station	Calhoun	
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY
S107 Agriculture Science Building-North	(606) 257-3333	PVPO NUMBER
University of Kentucky		9400221
Lexington, KY 40546		F Date
6. GENUS AND SPECIES NAME 7. FAMILY NAME (Botani	ical	Lylly 11 /994
		N G □ A.M. □ P.M.
· · · · · · · · · · · · · · · · · · ·	DATE OF DETERMINATION	F Filing and Examination Fee:
		E 130/200
Soybean 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, par	June 1, 1993	B July 11, 1994
		E Certificate Fee:
Agricultural Experiment Station - U.S. Go	Vermment ATE OF INCORPORATION	E \$ 300.00
		V Date E // / / / / / / / / / / / / / / / / /
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION	ON AND RECEIVE ALL PAPERS	5 Oct, 10,1995
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	Variety Protection Office 5/26/9 tates." Y AS A CLASS OF CERTIFIED SEED? (Se 40," skip to item 18 below) O ITEM 16, WHICH CLASSES OF PRODUC JINDATION REGISTI	e section 83(a) of the Plant Variety CTION BEYOND BREEDER SEED?
	J.S. release	
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced uniform, and stable as required in section 41, and is entitled to protection under the Applicant(s) is (are) informed that false representation herein can jeopardize protection. SIGNATURE OF APPLICANT [Owner(s)] CAPACITY OR CAPACITY OR	t be furnished with the application ovel plant variety, and believe he provisions of section 42 of the Fection and result in penalties.	(s) that the variety is distinct,
FORM CSSO-470 (5-89) Edition of FORM LS-470, 3-86, 15 obsolute.	tuto	5/11/94

14.a. Calhoun is an F_4 plant selection from the cross 'Ripley' x 'Pershing'. The cross was made and the ${\rm F}_1$ plants were grown in 1983, greenhouse and field, respectively, at the Kentucky Agricultural Experiment Station. The seeds were advanced from the F_2 to the F_4 generation by modified singleseed descent (harvesting one pod per plant followed by subsampling to maintain a constant population size) at the Iowa State University soybean breeding nursery at the University of Puerto Rico, Isabela Substation. The F_4 plant selection was made in 1984 in Lexington, KY. The F_4 -derived line was evaluated for seed yield in Kentucky from 1987 through 1992 and in the Uniform Soybean Tests Northern States (Group IV) in 1989 and 1990 under the designation KY85-09073. In 1990 72 $F_{9:10}$ progeny rows were screened for segregation and offtypes and the nonsegregating rows were bulked. subsequent seed increase derived from this seed bulk. Copies of the 1991 and 1992 Kentucky Agricultural Experiment Station Seed Laboratory Reports and the 1992 Kentucky Seed Improvement Association field inspection report are attached as evidence of uniformity. The performance in 33 Kentucky environments and 29 regional environments is submitted as evidence of stability.

14.a. continued

Yield and agronomic summaries of Calhoun.

Calhoun was evaluated in the Northern Regional Group IV Uniform Soybean Performance Tests in 1989 and 1990. The results are shown in Table 1. Comparisons in full season and double crop soybean performance tests in Kentucky from 1987 to 1992 are summarized in Table 2.

Table 1. Average performance of Calhoun and check cultivars in the Preliminary Group IV test 1989 (8 tests) and in the Uniform Group IV test 1990 (21 tests).

Entry	Yield bu/a	Mat.	Lod. 1-5	Ht. in	Seed Qual. 1-5	Seed Size g/100	Protein %	Oil %
Calhoun	49.7	+2.0	1.2	24	1.6	15.4	40.8	20.9
Ripley	48.3	-1.0	1.2	21	1.6	14.0	39.1	21.0
Flyer	51.0	-3.5	1.4	30	1.8	15.0	41.5	21.0
Spencer	49.4	9/30	1.4	33	2.0	17.8	40.7	21.4
Pennyrile	49.0	+5.5	1.7	39	1.7	16.2	41.5	20.7

Table 2. Yield (bu/acre) data from Kentucky including breeding tests 1987 - 1992 and Kentucky Soybean Performance Tests 1991-1992.

	13 envs that tested Ripley	33 envs in common with A3935 Essex	31 envs in common with Pennyrile	21 envs in common with Hutcheson	i.
Calhoun	51.2	48.8	47.9	48.5	
A3935	48.7	47.5	46.9	47.5	
Ripley	45.8	,			
Pennyrile			45.3	46.0	
Essex		44.7	43.4	43.4	
Hutcheson	_ _ _ _		:	45.8	

14.b. This variety is distinguishable from most other early maturity group IV varieties in that it has a determinate growth habit. Calhoun is distinguishable from many other maturity group III and IV semidwarf determinate varieties such as Pixie, Elf, Sprite, etc. in that it is later maturing, taller and has gray pubescence. Calhoun responds similarly in soybean sudden death syndrome evaluations as Ripley, R6 disease incidence less than 10%, which is different from many other maturity group IV varieties. Calhoun is visually similar to its maturity group IV parent Ripley. It may be distinguished from Ripley in that it matures about three days later, is approximaately 8 cm taller, and has 10% larger seed size.

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

301027	414 (Grycine max E.)			
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME		
Kentucky Agricultural Experiment Station	KY85-09073	Calhoun		
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code S107 Agriculture Science North University of Kentucky Lexington, Kentucky 40546	le)	FOR OFFICIAL USE ONLY PVPO NUMBER 9400221		
Choose the appropriate response which characterizes the var in your answer is fewer than the number of boxes provided, Starred characters ** are considered fundamental to an adequation information is available. 1. SEED SHAPE: L W 1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)	place a zero in the first box we water soybean variety description	below. When the number of significant digit hen number is 9 or less (e.g., 0 9).		
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		L/T ratio > 1.2; T/W > 1.2)		
2. SEED COAT COLOR: (Mature Seed)				
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	Specify)		
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)				
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	y'; 'Gasoy 17')			
4. SEED SIZE: (Mature Seed)				
1 5 Grams per 100 seeds				
5. HILUM COLOR: (Mature Seed)				
1 = Buff 2 = Yellow 3 = Brown 4	= Gray 5 = Imperfect Blad	k 6 = Black 7 = Other_(Specify)		
6. COTYLEDON COLOR: (Mature Seed)				
1 = Yellow 2 = Green				
7. SEED PROTEIN PEROXIDASE ACTIVITY:				
2 = High				
8. SEED PROTEIN ELECTROPHORETIC BAND:				
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)				
9. HYPOCOTYL COLOR:				
1 = Green only ('Evans'; 'Davis') 2 = Green with 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'C	bronze band below cotyledons ("V Coker Hampton 266A")	Voodworth'; 'Tracy'}		
T10. LEAFLET SHAPE:				
2 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)			

11	. LEAFL	AFLET SIZE:	
		1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; ' 3 = Large ('Crawford'; 'Tracy')	Gasoy 17')
12	LEAF	AF COLOR:	
-		1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corso') 3 = Dark Green ('Gnome'; 'Tracy')	y 79'; 'Braxton')
★ 13	LFLOWE	OWER COLOR:	
	2	1 = White 2 = Purple 3 = White with purple throat	
★ 14	, POD CO	D COLOR:	
	1	1 = Tan 2 = Brown 3 = Black	
★ 15	. PLANT	ANT PUBESCENCE COLOR:	
•	1	1 = Gray 2 = Brown (Tawny)	
16	, PLANT	ANT TYPES:	
		1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor' 3 = Bushy ('Gnome'; 'Govan')	; 'Braxton')
<u>★</u> 17	. PLANT	ANT HABIT:	
	1	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Wi 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	II ')
★ 18	. MATU	TURITY GROUP:	
	7	7 1 = 000 2 = 00 3 = 0 4 = I 5 = II 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X	6 = III 7 = IV 8 = V
1 9	. DISEA	EASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
	BACT	ACTERIAL DISEASES:	
*		Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
*		1 Bacterial Blight (Pseudomonas glycinea)	
*		○ Wildfire (Pseudomonas tabaci)	
	FUNGA	어 DISEASES:	
*	0	0 Brown Spot (Septoria glycines)	
		Frogeye Leaf Spot (Cercospora sojina)	
· .		0 Race 1 0 Race 2 0 Race 3 0 Race 4 0) Race 5 Other (Specify)
٠.	H	Tarnet Shot (Corynespora cassilonia)	
 		York and the state of the state	
: ★		Brown Stem Rot (Cephalosporium gregatum)	
	6	Stem Canker (Diaporthe phaseolorum var. caulivora)	

19. DISE	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)						
FU	INGAL DISEAS	ES: (Continued)					
* 1	Pod and Ste	m Blight (Diaporthe phaseolorum var; sojae)		·			
	Purple Seed	Stain (Cercospora kikuchii) Zero uno	ler artifical i	noculation 199()		
0	Rhizoctonia	Root Rot (Rhizoctonia solani)	Uniform Test				
	Phytophtho	ra Rot (Phytophthora megasperma var. sojae)					
★ 2	Race 1	0 Race 2 0 Race 3 0	Race 4 0 Race 5	O Race 6	Race 7		
0	Race 8	. 0 Race 9 · Other (Specify)					
VIF	RAL DISEASES	;					
0	Bud Blight (Tobacco Ringspot Virus)					
0	Yellow Mosa	nic (Bean Yellow Mosaic Virus)					
★ 0	Cowpea Mos	aic (Cowpea Chlorotic Virus)					
0	Pod Mottle (Bean Pod Mottle Virus)					
\star [1	Seed Mottle	(Soybean Mosaic Virus)					
NE	MATODE DISE	ASES:					
	Soybean Cys	t Nematode <i>(Heterodera glycines)</i>					
★ [0]	Race 1	0 Race 2 1 Race 3 1	Race 4 Other (Specify)			
0	Lance Nemat	ode (Hoptolaimus Colombus)	• • • • • • • • • • • • • • • • • • •		· ·		
★ 0	Southern Roc	ot Knot Nematode (Meloidogyne incognita)					
* 0	Northern Roc	ot Knot Nematode (<i>Meloidogyne Hapla)</i>					
0	Peanut Root	Knot Nematode <i>(Meloidogyne arenaria)</i>					
	Reniform Ner	natode (Rotylenchulus reniformis)					
2	OTHER DISE	ASE NOT ON FORM (Specify): Sudden	Death Syndrom-	-1993 Southern	Illinois		
		•		Univ. SDS Test			
. —	OLOGICAL RE	SPONSES: (Enter 0 = Not Tested; 1 = Suscep	tible; 2 = Resistant)				
* [_]	Iron Chlorosis	on Calcareous Soil			•		
	Other (Specify	//					
21, INSECT	REACTION:	(Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	esistant)				
	Mexican Bean	Beetle (Epilachna varivestis)					
	Potato Leaf H	opper (Empoasca fabae)					
	Other (Specify)					
2. INDICA	TE WHICH VA	RIETY MOST CLOSELY RESEMBLES THA	T SUBMITTED.				
CHAR	ACTER	NAME OF VARIETY	CHARACTER	NAME OF VA	RIETY		
Plant Sha	ape	Ripley	Seed Coat Luster	Ripley			
Leaf Sha		<u>Ripley</u>	Seed Size				
Leaf Cold		Ripley	Seed Shape				
Leaf Size		Ripley	Seedling Pigmentation	Ripley			

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
VAILETT	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Calhoun Submitted	127	11.3	61	6.7	11.2	41.0	20.8	15.0	• .
Ripley Name of Similar Variety	124	1.2	53	6.9	11.6	39.5	21.1	13.9	

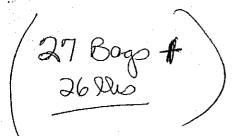
PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

14.b(2) Data from the 1990 Uniform 4 tests showing Calhoun significantly different from Ripley in height and maturity.

	Height cm		Maturity -days +/- Spencer-	
Location	Calhoun	Ripley	Calhoun Ripley	
Georgetown Belleville Ridgway Urbana Lafayette Vincennes Manhattan Lexington Queenstown Portageville Adelphia Mt. Orab	43 71 53 86 81 74 74 56 38 74 56	36 71 46 71 65 71 68 68 51 30 66 46	- 1	-
S. Charleston Landisville Lubbock Orange Middletown Carbondale Powhattan Topeka Columbia	74 79 28 64 43 48 51 64	68 74 28 53 30 43 38 48	4 0 3 0 11 12 5 0	
mean difference mean SS df	61 8 369 20	.29	2.6 - 0.5 3.1 94.94 15	
df s ² s x tcalc t(0.025,df)	18 0 8	.46 .938 .53 .08	6.33 0.629 4.86 2.13	

The hypotheses that the mean of Calhoun minus the mean of Ripley equals zero for both height and maturity are rejected. The alternative hypotheses that the mean of Calhoun minus the mean of Ripley is different from zero (thus, the means of the cultivars are different) for both height and maturity are accepted.



UNIVERSITY OF KENTUCKY
DIVISION OF REGULATORY SERVICES
103 REGULATORY SERVICES BUILDING
LEXINGTON, KENTUCKY 40546-0275
606-257-5656

SEED LABORATORY REPORT

DATE 12/10/91 ACCOUNT NO. 3585 LAB NO. R-3906

KY. FOUNDATION SEED PROJECT P.O. BOX 11950 LEXINGTON, KY 40579

NOTE: This report is based on the sample as submitted and received. Persons submitting samples for analysis and/or test should insure that the sample submitted is representative of the lot from which taken. Reports are not on varietal trueness when such designation can be determined only by trueness-to-variety tests.

Lot No. NOT STATED

WEED SEED

VARIETY and KIND	PURE SEED percent	GERMINATION percent	HARD SEED percent
Breeders 9073 Soybean	99.88	96	The same state sta
	ann anns ain, ain, ain ann ann ain ann ann ann ann ann ann	una ann ann ann aige ann ann ann ann ann ann ann ann ann an	
Crop Seed 0.00 % Inert 0.12 %	Weed Seed 0.00	% Date Test	ed 11/25/91
NAME AND NUMBER OF KENTUCKY NOXIOUS	WEED SEED PER PO	OUND	
NAME AND NUMBER PER POUND OF	FOREIGN SEED FO	UND IN SAMPLE	

NO.

CROP SEED

PEROXIDASE - 100 SEED: ALL POSITIVE

HYPOCOTYL - 100 SEED: 98 PURPLE; 2 DEAD

*SEED COUNT-2728 SEED PER LB.

Dan Niffenegger
Interim-Director of Seed Program

Tina Tillery Lab Manager

NO.



UNIVERSITY OF KENTUCKY DIVISION OF REGULATORY SERVICES" 103 REGULATORY SERVICES BUILDING LEXINGTON, KENTUCKY 40546-0275

SEED LABORATORY REPORT

DATE 12/01/92 ACCOUNT NO. 3585 LAB NO. R-3177

and the control of th KY. FOUNDATION SEED PROJECT P.O. BOX 11950 LEXINGTON, KY 40579

NOTE: This report is based on the sample as submitted and received. Persons submitting samples for analysis and/or test should insure that the sample submitted is representative of the lot from which taken. Reports are not on varietal trueness when such designation can be determined only by trueness-to-variety tests.

Lot No: 86-92-5-1

VARIETY and KIND

PURE SEED percent GERMINATION

HARD SEED percent percent

Foundation KY 09073 Soybean

99.91

93

Inert 0.09 % Crop Seed 0.00 % Weed Seed 0.00 % Date Tested 11/27/92

NAME AND NUMBER OF KENTUCKY NOXIOUS WEED SEED PER POUND

NAME AND NUMBER PER POUND OF FOREIGN SEED FOUND IN SAMPLE CROP SEED WEED SEED NO.

NO.

*SEED COUNT 2,580/LB.

Dan Niffenegger Coordinator, Seed Regulatory and Testing Program

Tina Tillery Lab Manager

KENTUCKÝ SEED IMPROVEMENT ASSOCIATION
P. O. BOX 12008, LEXINGTON, KENTUCKÝ 40579, PHONE: (606) 257-2971, FAX: (606) 253-3119

P. O. BOX 12008, LEXINGTON, KI	-NTOCKY 40579, PHO N:FIELD INSPECT		o) 253-3119
NAME FOUNDATION SEED PROJECT NO	o 00008 6	F.A.N. 6001 I.D. 8	86-92-S-1
ADDRESS P O BOX 11950/KY SEEDS B			0080001
CITY LEXINGTON ZIP 40579		VAR. KY 09073	CLASS PRODF
COUNTY FAYETTE PHONE 606-25			LANTED05/19/92
(ATENNE 19 20 전 2011) - 12 12 12 12 12 12 12 12 12 12 12 12 12	# 007078	SEED LOT 1991-090	
ADDRESS HENTON FARMS INC/3767 FRA	- 20 (20mm) (1.10mm) (1.10mm	ID HISTORY TIBRIL CL	
PLANT COUNTS		영 기본 다른 경험 중에 유로 가능하는데	THE YES AND THE RESERVE OF THE STATE OF THE
OFF TYPES OFF TYPES AND ARBITRATION OF TYPES	2008年後によるママケッド 二人代 …	CROP AND WEED INFESTATION TE H HEAVY	\boldsymbol{L}
1. 0 11. 1. 11. 1. 11. 0. DISEASES		WEEDS	JOHNSONGRASS (29) LAMBSQUARTER (30)
2 0 12 2 12 2 12	D BLIGHT (18)	BALLOONVINE (2)	MILKWEED (32)
3. 01 13. 3. 6 13. 5 3. 6 Y	ST NEMĀTODE (11)	BLK. NIGHTSHADE (3)	MORNING GLORY (33)
	D KSTEM BLIGHT (12)	COCKLEBUR (9)	POKE (35)
6. 7. 16. 6. 0 16. 6. 16.	PLESD STAIN (13)	COMMON PIGWEED (74)	PRICKLY SIDA (36)
7 7 7 7 7 7 17	YBEAN MOSAIC (17)	COMMON RAGWEED (12)	SIGKLEPOD (41)
8. 0 18. 8. 18. SDS		COPPER LEAF (75) FIELD BINDWEED (20)	SMARTWEED (42) SPINEY PIGWEED (43)
g () 19. 9. 19. 19.		FALL PANICUM (19)	SPINÈY AMARANTH (106)
10. 20. 10. 0 20. 10. 20. OTHER CRIC	DPS \	GIANT FOXTAIL (21)	THISTLE (44)
AVG. AVG.	RN (31)	GIANT RAGWEED (22)	VELVETLEAF (45)
	RĞHUM (32) VELOWERS (98)	GROUND CHERRY (23)	VIRGINIA COPPERLEAF (75) WILDCANE (77)
2. 1/10 ACRE / COUNT	VELOWERS (90)	HORSE NETTLE (26)	YELLOW: CUCUMBER (49)
			YELLOW NUTSEDGE (53)
) DES	CRIBE OFF-TYPES SEEN IN FIELD
SKETCH FIELD AND INDICATE ISOLATI	C N	ESTIMATED YIELD	PLANT
The state of the s			HEIGHT FLOWER COLOR
			144
		FAIR 2	
		GOOD 3	
		EXCELLENT	PLANT PLANT MATURITY PUBESCENCE //
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	punital (HARVEST BROWN
[w. · //3]	• (E)	Land Berker Name of the Control of the	
1 St 10		QLASS NORTH 3	
		11455 south	HUM COLOR OTHER CHARACTERISTICS
		30H hears ofer varie	
		rif hims ofur var	
		JASS SOUTH 20 H bear East ofer variety 5 H biar solur var ut 3	
		Landing and the second	
ENERAL APPEARANCE OF FIELD NICE / and	oca shart		8 N2 G2
TAGE OF MATURITY /3 WOM / Harve		FLOWER INSPECTION	DATE: 7-28-92
MOUNT OF LODGING, SHATTERING, ETC. / LUGUE		LEAF FALL INSPECTIO	N DATE:
XPLAIN PROBLEM AREAS IN FIELD AND A	reld with	ears - well	durenova deg
KESP personel &	- howest		
THER COMMENTS 15 Off type 6	own pub.	eserce - al	I pulled as
found in field.	U		
EJECTED, COBJECT TO REINSPECTION BY		FOR	
	(TE)		
CRES PASSEDACRES REJECTED		_ FOR _	
ELD INSPECTOR / / / / / / / / / / / / / / / / / / /	2 .	inspector no $=38$	
PPLICANT SUTTONIO HOMES		DATE	
			11
ALL CERTIFIED SEED MUST BE	CLEANED BY A KSIA	APPROVED SEED CONDITION	NER!
WHITE COPY-KSIA. YELLOW COPY-CONDIT	ONER. PINK COP	Y-PRODUCER, GOLDEN	INOU CORPANSPECTOR

14.e. Basis of ownership: The Kentucky Agricultural Experiment Station is the employer of the soybean breeder, T.W. Pfeiffer, who developed, tested, and coordinated the multiplication of this variety. The Kentucky Agricultural Experiment Station is the institution listed on the release notice for this variety.

Exhibit E: Statement of Ownership (Revised 11 Sept. 1995)
'Calhoun' was originated and developed by Todd Pfeiffer,
soybean breeder employed by the Kentucky Agricultural
Experiment Station. By agreement between Todd Pfeiffer and
the Kentucky Agricultural Experiment Station all rights to
Calhoun are assigned to the Kentucky Agricultural Experiment
Station and no rights to Calhoun are retained by Todd
Pfeiffer.